

Simulation of stresses and deformations in convective drying of a thin disperse film

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Abstract

The development of stresses and deformations in intense drying of a thin concentrated disperse system is studied with regard to the difference between the rheological behaviors of the material in the wet and dry zones. The influence of the rheological properties and the permeability of the medium on the level of its internal stresses is studied. The dependence of the viscous properties of the system on the deformations of the medium is taken into account.
